

## **HiLiftPW-1 Trap Wing Suggested Areas of Flow Solution Post-Processing**

In addition to the basic force, moment, and pressure data file preparation required for workshop participation, researchers are also asked (as much as possible) to focus on qualitative and quantitative post-processing of Trap Wing flow solutions for enhanced technical understanding of the following phenomena:

- All regions of flow separation and flow reversal including (but not limited to):
  - Flap / side-of-body (SOB) separation bubble
  - Flap trailing edge (TE) separation
  - Flow reversals on the body pod
  - Flow breakdown beyond  $CL_{max}$
- Assessment of flow confluence from the slat and main element wakes
  - Thickness of confluence layers
  - Areas of wake merging
- Assessment of turbulence modeling
- Any indication of and insight into hysteresis, non-unique solutions, or other “odd” solution behavior

Examples of additional post-processing data include streamlines, contour maps (e.g. eddy viscosity in wakes or off-body vorticity), velocity vector distributions, etc.